

GC/Waldom Electronics

1801 Morgan Street
 Rockford, IL 61102
 Product Information: (815) 968-9661

Product Name: Service Cement

MSDS Number: 146
 Revision Date: 11/16/00
 Supersedes Date: 10/20/97

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Solvent Release Adhesive
 Product Name: Service Cement
 Part Number(s): **10-302**
10-310
10-304 Discontinued

Emergency Contact: Chemtrec
Phone (24 hours): (800) 424-9300

Section 1 - Identification of Product
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HMIS Rating	Least	0
Health 2	Slight	1
Flammability 3	Moderate	2
Reactivity 2	High	3
Personal Protection D	Extreme	4
	Mask, Gloves and Apron	D

Section 2 - Hazardous Ingredients/SARA III Information

Hazardous Components	CAS#	Wt%	OSHA		ACGIH		Vapor Pressure	
			PEL	TLV	TLV	mm/Hg	Temp.	
Cellulose Nitrate	9004-70-0	20					N/A	
Isopropanol	67-63-0	15			400PPM	31.2	68 deg. F	
*Toluene	108-88-3	13			100PPM	38.0	68 deg. F	
Ethyl Acetate	141-78-6	30	400PPM		400PPM	86.0	68 deg. F	
Butyl Acetate	123-86-4	5			100PPM	10.0	68 deg. F	
Acetone	67-64-1	10			750PPM	185.0	68 deg. F	

*Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.
 All components of this product are TSCA registered.

DOT Description: Paint, 3, UN1263, PG II

Section 3 - Physical Data

Boiling Range: 132 to 252 Deg. F
 Vapor Density: Heavier than air
 Coating VOC: 5.85 LB/GL (701 G/L)
 Material VOC: 5.30 LB/GL (635 G/L)
 Solubility in Water: Slight
 Appearance and Odor: Solvent odor, aromatic, oily. Clear amber liquid.
 Specific Gravity (H2O-1): 1.0
 Evaporation Rate: Slower than Ether

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Section 4 - Fire & Explosion Hazard Data

Flash Point:	-4 Deg. F	Method Used: T.C.C.
Flammable Limits in Air by Volume:	Lower: 1.2%	Upper: 12.8%
Extinguishing Media:	Foam, alcohol foam, CO2, dry chemical, water fog.	
Special Fire Fighting Procedures:	Keep containers in storage cool with water to prevent pressure build up and bursting of containers. Self-contained breathing apparatus should be worn to protect firefighters from toxic degradation products.	
Unusual Fire and Explosion Hazards:	Dry nitrocellulose resin is extremely flammable and burns explosively. Avoid friction and impact to any quantity of dry resin. Burning rate increases with quantity and confinement. Toxic degradation products include Oxides of Nitrogen, Co and CO2. Dense toxic smoke is formed when material burns.	

Section 5 - Health Hazard Data

Health Risks and Symptoms of Exposure:	
Inhalation:	Headache, lethargy, drowsiness, weakness, difficulty walking, personality change, poor appetite, nausea and weight loss. Prolonged exposure to vapors in concentrations in excess of TLV can cause damage to kidneys, blood and nervous system.
Eyes:	Liquid may cause eyes to become irritated.
Skin:	May be mildly irritating to skin and cause burning sensation. Repeated contact with skin may cause defatting of epidermis and dermatitis.
Skin Absorption:	Prolonged absorption of material through skin could cause damage to blood, kidneys and nervous system. Absorption through skin is indicated by redness and roughness of affected area.
Ingestion:	Headache, lethargy, drowsiness, weakness, difficulty walking, personality change, poor appetite, nausea and weight loss. May cause Gastrointestinal irritation and vomiting.
Health Hazards (Acute and Chronic):	Vapor irritating to eyes, nose and throat. Liquid irritating to eyes and skin. Prolonged and repeated exposure to vapor concentrations in excess of TLV or through prolonged absorption through skin may cause damage to blood, kidneys and nervous system. May irritate Gastrointestinal tract. May produce unconsciousness. Chronic overexposure by inhalation or ingestion may produce headache, nausea, vomiting, cough, loss of balance and visual disturbances.
Carcinogenicity:	NTP: No IARC Monographs: No OSHA Regulated: Yes

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Medical Conditions Generally Aggravated by Exposure: Not considered a carcinogen by ACGIH, NTP, or IARC
None listed.

Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration. Give oxygen if breathing is difficult. Get professional medical attention immediately.

Eye: Immediately flush with plenty of water.

Skin: Remove contaminated shoes and clothing. Get medical attention. Do not reuse clothing or shoes until cleaned.

Ingestion: Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

Section 6 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat, sparks, flames and other sources of ignition. Avoid allowing unmodified resin to become dry. Avoid friction and impact.

Incompatibility (Materials to Avoid): Strong oxidizers, acids, bases and amines. Halogenated oxidizers present particularly acute incompatibility.

Hazardous Decomposition of Byproducts: Oxides of nitrogen, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 7 - Spill or Leak Procedures

Precautions for Safe Handling and Use:
Steps to be taken in case material is released or spilled: Immediately eliminate all possible sources of ignition. Use an appropriate absorbent. Large spills may be flushed into a suitable containment area with water. Do not use ferrous tools to scrape material from floor or other surface: See below.

Waste Disposal Method: Disposal of this material is regulated by Federal, State, and Local hazard waste regulations. Please consult appropriate agencies for current information. Hazardous liquids must be incinerated. Any solid absorbent or residual material recovered from a spill must be disposed of in accordance with Local, County, State and Federal regulations.

Section 8 - Special Protection Information

Respiratory Protection: Use a NIOSH approved cartridge respirator for vapor concentrations above the weighted average TLV.

Ventilation: Mechanical or supplemental local exhaust may be required to keep vapor concentrations below TLV.

Protective Gloves: Chemical resistant gloves and apron are recommended.

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Eye Protection: Face shield or goggles required. Eye wash and safety shower in the working area are recommended.

Other Protective Clothing or Equipment: Chemical resistant apron, conductive sole shoes, clothing of cotton or other fabric not prone to static build up are all recommended.

Section 9 – Special Precautions

Precautions to be taken in Handling and Storage:

Keep containers tightly closed, cool, dry and away from sources of heat, sparks and ignition. Remember: Dry nitrocellulose is extremely flammable; avoid accumulating large quantities of dry resin. Dry resin may ignite from sparks, flame, friction or impact. Use with adequate ventilation.

Other Precautions: Use only non-sparking tools.

Section 10 - Regulatory Information

Toluene 108-88-3

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DOT Description: Paint, 3, UN1263, PG II

Warning: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Disclaimer

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